

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	9	("6697111" "6535247" "5708836" "7511739" "7420603" "7382008").PN. "20060044437" "20040135070"	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/17 13:51
L2	11	("20040041077"   "20050110884"   "20050110885"   "6166768"   "6307195"   "6486503"   "6667768"   "6850278"   "7015964"   "7259790"   "7271835"). PN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/17 13:54
L3	4	("4851890"   "5122850"   "5476808"   "6351001"). PN. OR ("7420603"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/17 14:02
L4	3	("5818526"   "5898168"   "6043479").PN. OR ("7067792").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/17 14:03
L27	1	09/929037	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/17 14:32
L28	9	("4839735"   "5471246"   "5623306"   "5986297"   "6166768"   "6667768"   "7002626").PN. OR ("7271835").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/17 14:48
L29	194	(scan\$4 shift\$3 driv\$3) near5 (high\$3 increas\$3 fast\$3 short\$3) near5 (transfer\$4 transmi\$4) near5 (on hi rais\$3 ramp\$3 inclin\$3 rise\$1 rising\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 15:40
L30	228	(scan\$4 shift\$3 driv\$3) near5 (higher highest increas\$3 faster fastest shorter shortest) near5 (transfer\$4 transmi\$4) near5 (on hi pull\$3 rais\$3 ramp\$3 inclin\$3 rise\$1 rising\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 15:50

L31	105	(scan\$4 shift\$3 driv\$3) near5 (higher highest increas\$3 faster fastest shorter shortest) near5 (transfer\$4 transmi\$4) near5 (on hi pullup (pull\$3 near2 up) rais\$3 ramp\$3 inclin\$3 rise\$1 rising\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 15:52
L32	12799	(transfer\$4 shift\$3 transmi \$4 tx\$1 tfx\$1 tfr\$1 tr\$1) with (inclin\$3 rise\$1 rais\$3 rising pullup (pull\$3 near2 up) hi on) with (different faster fastest shorter shortest longer longest increas\$3 decreas\$3 slower slowest minimiz\$3 maximiz \$3 higher highest) with (decline\$1 fall\$3 drop\$5 down\$3 taper\$4 revers\$3 sink\$4 reduc\$4 decend\$3 lower\$4 lessen\$4 lesser\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 16:09
L33	1683	348/308.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/12/17 16:21
L34	697	348/302.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/12/17 16:21
L35	152	348/304.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/12/17 16:21
L36	132	348/307.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/12/17 16:21
L37	32	348/309.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/12/17 16:21
L38	154	348/310.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/12/17 16:21

L39	1231	348/241.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/12/17 16:21
L40	4699	250/208.1.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/12/17 16:21
L41	7522	L34 L35 L36 L33 L37 L38 L39 L40	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/12/17 16:21
L42	420	348/243.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/12/17 16:21
L43	104	348/248.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/12/17 16:21
L44	93	348/249.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/12/17 16:21
L45	160	348/250.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/12/17 16:21
L46	291	348/251.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/12/17 16:21
L47	215	348/252.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/12/17 16:21
L48	202	358/513.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/12/17 16:21

L49	61	250/214rc.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/12/17 16:21
L50	1443	L42 L43 L44 L45 L46 L47 L48 L49	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/12/17 16:21
L51	8674	L41 L50	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/12/17 16:21
L52	16	32 and 51	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/12/17 16:21
L53	16	52 and (transfer\$4 shift\$3 tx\$1 tfr\$1 tfr\$1 tr\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/12/17 16:32
L54	10	("20020163584"   "20030016296"   "20040262679"   "20050017155"   "20050167704"   "20060146158"   "4878120"   "6864920"   "7022965"   "7110030"). PN. OR ("7554074"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/17 16:38
L55	18	("3845295"   "4954895"). PN. OR ("7110030"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/17 16:39

L56	48	( "20020027189"   "20030164887"   "20040119864"   "20050122418"   "20050168618"   "20050174552"   "20050179796"   "20050185074"   "20050268960"   "20050269604"   "20060027843"   "20060043261"   "20060043393"   "20060043439"   "20060043440"   "20060044434"   "20060044439"   "20060157759"   "20060158539"   "20060158543"   "20060208161"   "20060208291"   "20060208292"   "20060221667"   "20070018080"   "20070085110"   "20070126886"   "5121225"   "5245203"   "5261013"   "5352920"   "5475211"   "5563405"   "5698892"   "6188094"   "6307195"   "6605850"   "6670990"   "6946637"   "6960751"   "6974975"   "7016089"   "7110030"   "7126102"   "7187052"). PN, OR ("7321110"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/17 16:42
L57	1	"20020027189"	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/17 17:01
L58	9	( "2002/0027189").URPN.	USPAT	OR	ON	2009/12/17 17:03
L59	152	348/304.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/12/17 17:04
L60	104	59 and (transfer\$4 shift\$3 tx\$1 tfr\$1 tfr\$1 tr\$1) near5 (speed tim\$3 rise rising fall \$3 transition gate on off))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/12/17 17:05

L61	1837	348/c3.018.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/12/17 17:16
L63	10771	(transfer\$4 shift\$3 transmi \$4 tx\$1 tfx\$1 tfr\$1 tr\$1) with open\$3 with (different faster fastest shorter shortest longer longest increas\$3 decreas\$3 slower slowest minimiz\$3 maximiz \$3 higher highest) with clos \$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 17:33
L64	10	63 and 51	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/12/17 17:40
L65	2	63 and 61	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/12/17 17:48
L68	149	((TORU) near2 (KOIZUMI)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/17 18:10
L69	109	((TETSUNOBU) near2 (KOCHI)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/17 18:11
L70	4	("2002/0054390").URPN.	USPAT	OR	ON	2009/12/17 18:11
L71	20	("20010000068"   "20020054390"   "20030107669"   "20030117510"   "20030230763"   "20050052554"   "20050168605"   "20070176176"   "6518909"   "6633334"   "6653617"   "6757016"   "6788237"   "6809320"   "6831685"   "6839084"   "6850278"   "6952004"   "6963372"   "6965408"). PN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/17 18:12
L72	89	((HIROKI) near2 (HIYAMA)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/17 18:12
S1	1673	348/308.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/12/08 15:20

S2	1228	S1 and transfer\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/12/08 15:22
S3	70	S1 and (transfer\$4 near4 (speed\$3 rate\$1 velocit\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/08 15:25
S4	5	("6051857").PN. OR ("6946638").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/08 15:28
S5	7	("20020149688"   "20030179304"   "5278656"   "5856686"   "5998818").PN. OR ("6903771").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/08 15:29
S6	0	S5 and ((transfer\$4 tx\$1 tr \$1) near4 (speed\$3 rate\$1 velocit\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/08 15:35
S7	3	S5 and ((transfer\$4 tx\$1 tr \$1) near4 (speed\$3 rate\$1 velocit\$3 tim\$3 period\$1 interval\$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/08 15:35
S8	693	348/302.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/12/08 16:33
S9	152	348/304.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/12/08 16:33
S10	132	348/307.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/12/08 16:33
S11	32	348/309.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/12/08 16:33
S12	154	348/310.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/12/08 16:33

S13	1226	348/241.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/12/08 16:33
S14	4690	250/208.1.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/12/08 16:33
S15	7495	S8 S9 S10 S1 S11 S12 S13 S14	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/12/08 16:33
S16	367	(transfer\$4 shift\$3) same (((response near5 (tim\$3 interval duration clock\$3 period)) with ((low near3 high) (off near3 on)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/08 16:34
S17	1976	(transfer\$4 shift\$3) same (((transition response) near5 (speed\$1 velocit\$3 rate\$1 ns tim\$3 interval duration clock\$3 period)) with ((low near3 high) (off near3 on)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/08 16:40
S18	5104	(transfer\$4 shift\$3) same (((chang\$3 conver\$4 transition response) near5 (speed\$1 velocit\$3 rate\$1 ns tim\$3 interval duration clock\$3 period)) with ((low near3 high) (off near3 on)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/08 16:42
S19	5598	(transfer\$4 shift\$3) same (((chang\$3 conver\$4 transition response) near5 (speed\$1 velocit\$3 rate\$1 ns second\$1 microsecond \$1 microsec\$1 tim\$3 interval duration clock\$3 period)) with ((low near3 high) (off near3 on)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/08 16:43
S20	36	S15 and S19	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/08 16:44



S21	3353	(transfer\$4 shift\$3) same (((fall\$3 drop\$4 conver\$4 transition response) near\$5 (speed\$1 velocit\$3 rate\$1 ns second\$1 microsecond \$1 microsec\$1 tim\$3 interval duration clock\$3 period)) with ((low near\$3 high) (off near\$3 on)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/08 17:04
S22	419	348/243.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/12/08 17:06
S23	104	348/248.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/12/08 17:06
S24	93	348/249.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/12/08 17:06
S25	160	348/250.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/12/08 17:06
S26	291	348/251.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/12/08 17:06
S27	215	348/252.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/12/08 17:06
S28	202	358/513.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/12/08 17:08
S29	61	250/214re.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/12/08 17:10

S30	1442	S22 S23 S24 S25 S26 S27 S28 S29	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/12/08 17:11
S31	8647	S15 S30	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/12/08 17:11
S32	5457	(transfer\$4 shift\$3 fd (float \$3 near2 diffusion\$1) tx\$1 trx\$1 txf\$1 tr\$1 drain capacitor\$1 residual) same (((fall\$3 drop\$4 conver\$4 transition response) near5 (speed\$1 velocit\$3 rate\$1 ns second\$1 microsecond \$1 microsec\$1 tim\$3 interval duration clock\$3 period)) with ((low near3 high) (off near3 on)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/08 17:14
S33	42	S31 and S32	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/08 17:15
S34	5478	(transfer\$4 shift\$3 fd (float \$3 near2 diffusion\$1) txfer \$1 mt\$1 xfer\$1 tx\$1 trfx\$1 trx\$1 txf\$1 tr\$1 drain capacitor\$1 residual) same (((fall\$3 drop\$4 conver\$4 transition response) near5 (speed\$1 velocit\$3 rate\$1 ns second\$1 microsecond \$1 microsec\$1 tim\$3 interval duration clock\$3 period)) with ((low near3 high) (off near3 on)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/08 17:20

S35	9760	(transfer\$4 shift\$3 fd (float \$3 near2 diffusion\$1) txfer \$1 mt\$1 xfer\$1 tx\$1 trfx\$1 trx\$1 txf\$1 tr\$1 drain capacitor\$1 residual) same (((fall\$3 rise\$1 rising\$2 elevat\$4 declin\$3 inclin\$3 exponential\$2 drop\$4 transition\$3 response\$1) with (speed\$1 velocit\$3 rate\$1 ns second\$1 microsecond\$1 microsec\$1 tim\$3 interval\$1 rang\$3 duration clock\$3 period)) with ((low near3 high) (off near3 on)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/08 17:44
S36	1827	S35 and ((transfer\$4 shift \$3) with (fd (float\$3 near2 diffusion\$1) txfer\$1 mt\$1 xfer\$1 tx\$1 trfx\$1 trx\$1 txf \$1 tr\$1 drain capacitor\$1 residual))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/08 17:46
S37	138	S35 and ((sensor\$1 pixel\$1 paxel\$1 pel\$1 photodiode \$1 cmos ccd photoelectric \$4 photo photocell\$1) with (transfer\$4 shift\$3) with (fd (float\$3 near2 diffusion \$1) txfer\$1 mt\$1 xfer\$1 tx \$1 trfx\$1 trx\$1 txf\$1 tr\$1 drain capacitor\$1 residual))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/08 17:47
S38	8	fall with speed with low with residual	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/08 18:33
S39	527	(transfer\$4 shift\$3 fd (float \$3 near2 diffusion\$1) txfer \$1 mt\$1 xfer\$1 tx\$1 trfx\$1 trx\$1 txf\$1 tr\$1 drain capacitor\$1 residual) same (((fall\$3 rise\$1 rising\$2 elevat\$4 declin\$3 inclin\$3 exponential\$2 drop\$4) with (transition\$3 response \$1) with (speed\$1 velocit \$3 rate\$1 ns second\$1 microsecond\$1 microsec\$1 tim\$3 interval\$1 rang\$3 duration clock\$3 period)) with ((low near3 high) (off near3 on)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/08 18:42

S40	1053	(transfer\$4 shift\$3 fd (float \$3 near2 diffusion\$1) txfer \$1 mt\$1 xfer\$1 tx\$1 trfx\$1 trx\$1 txf\$1 tr\$1 drain capacitor\$1 residual) same (((fall\$3 slow\$3 long\$3 fast \$3 short\$3 rise\$1 rising\$2 elevat\$4 declin\$3 inclin\$3 exponential\$2 drop\$4) with (transition\$3 response \$1) with (speed\$1 velocit \$3 rate\$1 ns second\$1 microsecond\$1 microsec\$1 tim\$3 interval\$1 rang\$3 duration clock\$3 period)) with ((low near3 high) (off near3 on)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/08 18:43
S41	17	S40 and ((sensor\$1 pixel\$1 paxel\$1 pel\$1 photodiode \$1 cmos ccd photoelectric \$4 photo photocell\$1) with (transfer\$4 shift\$3) with (fd (float\$3 near2 diffusion \$1) txfer\$1 mt\$1 xfer\$1 tx \$1 trfx\$1 trx\$1 txf\$1 tr\$1 drain capacitor\$1 residual))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/08 18:43
S42	46165	(transfer\$4 shift\$3 fd (float \$3 near2 diffusion\$1) txfer \$1 mt\$1 xfer\$1 tx\$1 trfx\$1 trx\$1 txf\$1 tr\$1 drain capacitor\$1 residual) same (pull\$3 near2 (down up))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/08 18:54
S43	273	S42 and ((sensor\$1 pixel\$1 paxel\$1 pel\$1 photodiode \$1 cmos ccd photoelectric \$4 photo photocell\$1) with (transfer\$4 shift\$3) with (fd (float\$3 near2 diffusion \$1) txfer\$1 mt\$1 xfer\$1 tx \$1 trfx\$1 trx\$1 txf\$1 tr\$1 drain capacitor\$1 residual))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/08 18:54
S44	2004	(transfer\$4 shift\$3 fd (float \$3 near2 diffusion\$1) txfer \$1 mt\$1 xfer\$1 tx\$1 trfx\$1 trx\$1 txf\$1 tr\$1 drain capacitor\$1 residual) same ((gradual\$2 (bit adj1 bit) (step adj1 step) intermediate mid midway middle slow\$3 long\$3 speed\$1 velocit\$3 rate\$1) with (pull\$3 near2 down))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/08 18:58

S45	33	S44 and ((sens\$3 pixel\$1 paxe\$1 pel\$1 photodiode \$1 cmos ccd photoelectric \$4 photo photocell\$1) with (transfer\$4 shift\$3) with (fd (float\$3 near2 diffusion \$1) txfer\$1 mt\$1 xfer\$1 tx \$1 trfx\$1 trx\$1 txf\$1 tr\$1 drain capacitor\$1 residu \$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/08 18:59
S46	2093	(transfer\$4 shift\$3 fd (float \$3 near2 diffusion\$1) txfer \$1 mt\$1 xfer\$1 tx\$1 trfx\$1 trx\$1 txf\$1 tr\$1 drain capacitor\$1 residual) same ((gradual\$2 (bit adj1 bit) (step adj1 step) intermediate mid midway middle slow\$3 long\$3 interval\$1 rang\$3 period\$1 speed\$1 velocit\$3 rate\$1) with (duration transition\$2) with ((low near3 high) (off near3 on)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/08 19:22
S47	28	S46 and ((sens\$3 pixel\$1 paxe\$1 pel\$1 photodiode \$1 cmos ccd photoelectric \$4 photo photocell\$1) with (transfer\$4 shift\$3) with (fd (float\$3 near2 diffusion \$1) txfer\$1 mt\$1 xfer\$1 tx \$1 trfx\$1 trx\$1 txf\$1 tr\$1 drain capacitor\$1 residu \$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/08 19:22
S48	6	("4749882"   "5317206"   "5568081"   "6177819"). PN. OR ("6351148"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/08 19:27
S49	10	("4728802"   "4945419"   "5160836").PN. OR ("5376782").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/08 19:34
S50	19	("20030103153"   "20030133625"   "20030227018"   "20040036008"   "20040174450"   "5376782"   "5576763"   "6384394"   "6566697"   "6667768"   "6721464"   "6727946"   "6777660"). PN. OR ("6958776"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/08 19:38

S51	3	("5818526"   "5898168"   "6043479").PN. OR ("7067792").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/08 19:58
S52	473679	(transfer\$4 shift\$3 fd (float \$3 near2 diffusion\$1) txfer \$1 mt\$1 xfer\$1 tx\$1 trfx\$1 trx\$1 txf\$1 tr\$1 drain capacitor\$1) same (lag\$4 resid\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/08 20:38
S53	0	(11/573069 11/659419 11/672119 11/673366).PN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/09 12:52
S54	4	(11/573069 11/659419 11/672119 11/673366)	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/09 12:52

**EAST Search History (Interference)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L66	0	(transfer\$4 and (control\$4 driv\$3 gate\$1 circuit\$2 transistor\$1 switch\$3) and fall and speed and chang\$3 and second and level and first and slower and rise). clm.	USPAT; UPAD	OR	ON	2009/12/17 17:59
L67	0	((pixel imag\$3 photoelectric photodiode photogate photo) and transfer\$4 and (control \$4 driv\$3 gate\$1 circuit\$2 transistor\$1 switch\$3) and (decreas\$3 drop\$4 declin\$3 fall\$3 off clos\$3) and (tim\$3 rate\$1 interval\$1 period speed) and (transition\$3 chang\$3) and (on (second near2 level)) and (off (first near2 level)) and (slower longer) and (faster rise)). clm.	USPAT; UPAD	OR	ON	2009/12/17 18:09

12/17/2009 6:22:36 PM

C:\Documents and Settings\cquieft\My Documents\EAST\Workspaces\09929037d.wsp